

Time: 30 Min	PHY101	2nd QUIZ (15 Marks) Set A Apr. 2026
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Draw and write constructive and destructive interference of light. Mark-3

List down the advantages and disadvantages of optical fiber. Mark-3

Explain how phase difference arises in the Young's Double Slit Experiment.

Derive the expression for phase difference in terms of path difference. Mark-3

The absolute refractive indices of diamond and water are 2.52 and 1.33 respectively. If the speed of light in diamond is 2.34×10^8 m/s, calculate the speed of light in: (i) vacuum and (ii) water. Mark-3